What is Claimed is:

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- 1. A method of inducing an immune response in an animal, comprising:
- 5 (a) preparing a closed expression library from cDNA or fragmented genomic DNA of a selected cell; and
 - (b) introducing one or more clones of said library into the animal in a manner effective to induce an immune response against one or more antigens that may be encoded by said clone or clones.
 - 2. The method of claim 1 wherein the selected cell is a pathogen.
 - 3. The method of claim 2 wherein the pathogen is a virus, yeast, mold, yeast, algae or protozoa.
 - 4. The method of claim 1 wherein the selected cell is a tumor cell.
 - 5. The method of claim 1 wherein the selected cell is a bacterial cell.
 - 6. The method of claim 5 wherein the bacterial cell is identified as Mycoplasma pulmonis or Listeria monocytogenes.
 - 7. The method of claim 1 further comprising testing the animal for an immune response.
 - 8. The method of claim 7 wherein the testing comprises challenging the animal with the selected cell.

- The method of claim 7 Wherein the testing comprises determining a specific binding 9. reaction between a selected cell antigen and one or more antibodies obtained from the animal.
- The method of claim 1 further comprising obtaining antibodies generated in response 5 10. to one or more antigens encoded by the introduced clone or clones.
 - The method of claim 1 wherein the cloned expression library is prepared using a 11. bacterial host cell.
- The method of claim 1 wherein the doned expression library is prepared using a 12. mammalian host cell.
 - The method of claim 11 wherein the bacterial cell is an E. coli. 13.

- The method of claim 1 wherein the DNA is fragmented physically or by restriction 14. enzymes.
- The method of claim 14 wherein fragments are about 100-1000 bp. 15.
- The method of claim 14 wherein the fragments are about 400 bp. 16.
- The method of claim 1 wherein the DNA is fused to a mammalian gene. 17.
- The method of claim 17 wherein the mammalian gene encodes a fusion protein. 25 18.
 - The method of claim 18 wherein the fusion protein is ubiquitin or human growth 19. hormone.
- The method of claim 1 wherein the library is about $1x10^2$ to about $1x10^7$ clones. 30 20.

- 21. The method of claim 1 wherein the library is about 10³ to about 10⁵ clones.
- 22. The method of claim \(\psi\) wherein the library is about 10⁴ clones.
- 5 23. The method of claim 1 wherein about 8 μ g to about 12 μ g of DNA is introduced into the animal.
 - 24. The method of claim 1 wherein about 10 μ g of DNA is introduced into the animal.
- 10 25. The method of claim 24 wherein the DNA is introduced by gene gun or injection.
 - 26. The method of claim 1 wherein the expression library comprises a vector that includes a promoter suitable for expression in a mammalian cell.
 - 27. The method of claim 26 wherein the vector includes a signal sequence positioned upstream of the DNA.

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- 28. The method of claim 1 further including dentifying one or more clones that provide protection against challenge by the pathogen.
- 29. A pharmaceutical composition comprising one or more antigens of a pathogen obtained from a population of antigens expressed in an animal inoculated with a cloned expression library from cDNA or fragmented genomic DNA of said pathogen in a pharmaceutically acceptable vehicle.
- 30. The composition of claim 29 wherein the pathogen is identified as Mycoplasma pulmonis.
- 31. The composition of claim 29 wherein the pathogen is identified as Listeria monocytogenes.

- 32. A method of preparing an antigen, comprising:
- (a) administering to an animal a pharmaceutical composition comprising one or more clones of a cloned expression library prepared from cDNA or fragmented genomic DNA of a selected cell under conditions effective to allow expression of an antigen or antigens; and
 - (b) identifying the antigen or antigens so expressed.
- 33. The method of claim 32 further comprising obtaining an antibody or antibodies generated in response to the antigen or antigens expressed by one or more clones of the expression library.
- 34. An antibody or antibodies obtained by administering to an animal one or more clones of an expression library prepared from cDNA or fragmented genomic DNA of a selected cell and collecting the antibody or antibodies generated in response to an antigen or antigens expressed from said DNA.
- 35. A kit comprising, in suitable container means, a pharmaceutically acceptable composition of a cloned genomic expression library of *Mycoplasma pulmonis* or *Listeria monocytogenes* together with means for administering said composition.
- 36. An immunodetection kit for detecting a pathogen, comprising:
 - (a) an antibody or antibodies prepared by the method of claim 34;
 - (b) a suitably aliquoted composition of the pathogen; and
 - (b) an immunodetection means.

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- 37. The kit of claim 36 wherein the pathogen is identified as Mycoplasma pulmonis or Listeria monocytogenes.
- 38. A pharmaceutical composition comprising a cloned expression library from cDNA or fragmented genomic DNA of a pathogen in a pharmaceutically acceptable vehicle.
 - 39. The composition of claim 38 wherein the pathogen is Mycoplasma pulmonis or Listeria monocytogenes.
 - 40. A method of generating an immune response to a tumor cell, comprising the steps:
 - (a) preparing a cloned expression library from fragmented cDNA prepared from mammalian tumor mRNA; and
 - (b) introducing one or more clones of said expression library into a mammal in a manner effective to generate an immune response against one or more tumor cell antigens that may be encoded by said clone or clones.

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